

ABSTRACT OF THE DISCLOSURE

Application factoring or partitioning is used to integrate secure features into a conventional application. An application's functionality is partitioned into two sets according to whether a given action does, or does not, involve the handling of sensitive data. Separate software objects (processors) are created to perform these two sets of actions. A trusted processor handles secure data and runs in a high-assurance environment. When another processor encounters secure data, that data is sent to the trusted processor. The data is wrapped in such a way that allows it to be routed to the trusted processor, and prevents the data from being deciphered by any entity other than the trusted processor. An infrastructure is provided that wraps objects, routes them to the correct processor, and allows their integrity to be attested through a chain of trust leading back to base component that is known to be trustworthy.